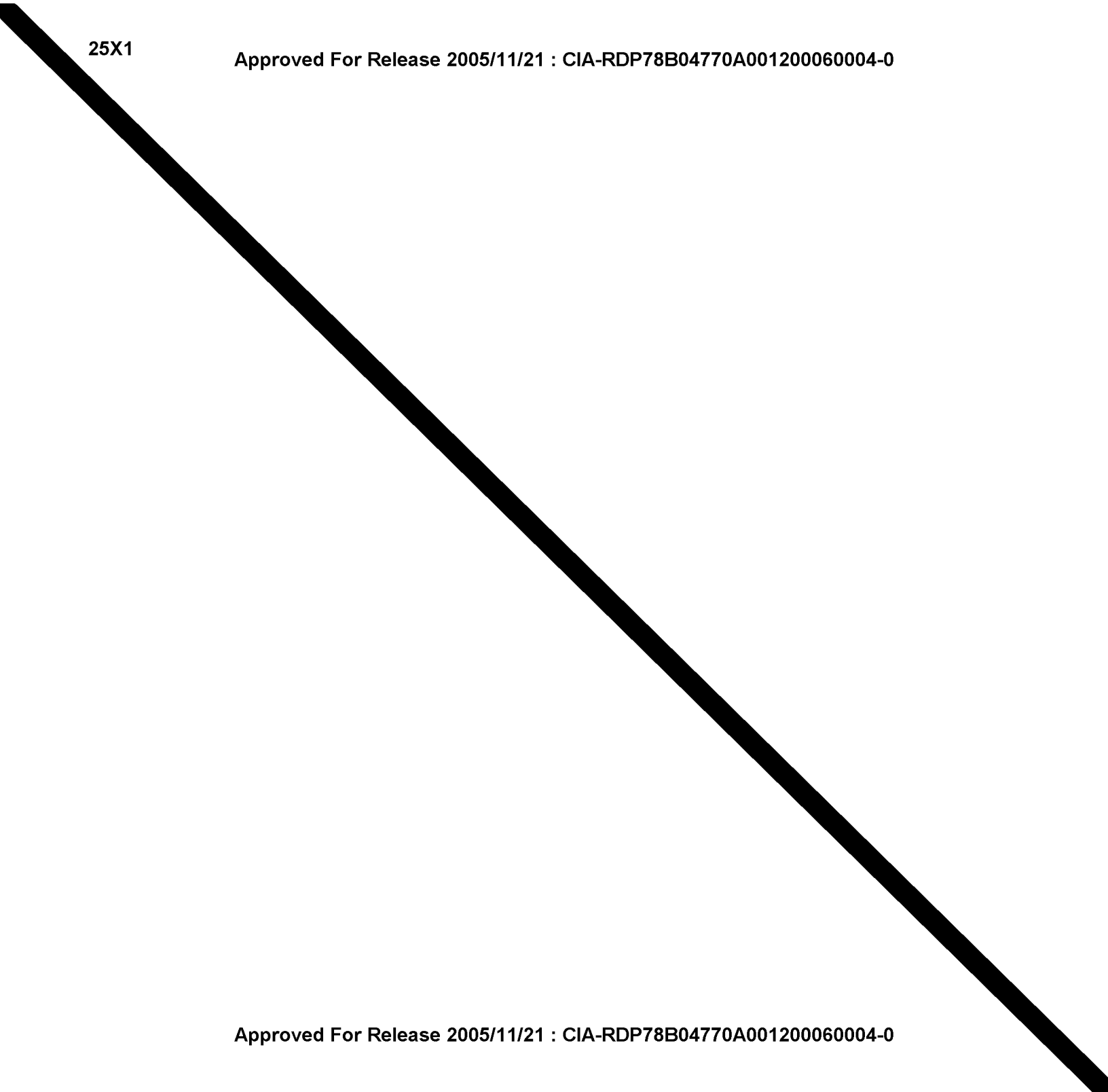

Approved For Release 2005/11/21 : CIA-RDP78B04770A001200060004-0

NPIC/TDS/D-1002-67
1 September 1967

MEMORANDUM FOR: Assistant for Technical Development

SUBJECT : 9" X 40" Light Tables

REFERENCE : NPIC/TDS/D-989-67, dated 25 August 1967

1. I concur in Ed's suggestion and have discussed it in detail with [redacted] We both feel it is feasible and that successful implementation would reflect favorably upon the image of the Technical Development Staff both in-house and throughout the community. 25X1

2. With your approval we will assign responsibility for this project to a team composed of members of DS, EPS, EDLB, IAS, and PAG. I recommend that we hold up on project 02278 since, as Ed explains, the P.I.'s are not willing to accept further versions of tables such as the [redacted] and money expended in this direction would not yield significant results. 25X1

[redacted] 25X1
Chief, Development Staff, TDS

Attachment: (1)
Reference memo

Distribution:
Orig & 1 - Addressee (w/att.)
1 - NPIC/TDS/DS/ESB [redacted] 25X1
2 - NPIC/TDS/DS

25X1 NPIC/TDS/DS/[redacted] (1 Sep 67)

SECRET

SEC. CL.	ORIGIN	CONTROL NO.
S		D-989-67 25X1

DATE OF DOC	DATE REC'D	DATE OUT	SUSPENSE DATE	CROSS REFERENCE OR POINT OF FILING
25 Aug 67				

TO Chief, Development Staff, NPIC
FROM TDS
SUBJ. ØØ- 9" X 40" Light Tables

ROUTING	DATE SENT
Ch, DSP	28 Aug
Ch, DS	

COURIER NO.	ANSWERED	NO REPLY

2

NPIC/TDS/DS-989-67
25 August 1967

MEMORANDUM FOR: Chief, Development Staff, NPIC

THROUGH : Chief, Exploitation Systems Branch, DS

SUBJECT : 9" X 40" Light Tables

1. The Development Staff has recently completed a development program which conceptually produced an idealized 9" X 40" light table. The development and subsequent evaluation have shown that the photo interpreters are not willing to accept a light table with the complexity and mass that was produced in direct response to their varied requirements and desires. The development program, while certainly not successful in producing an operational light table, did reap two important benefits: (1) the realization that only a slight deviation from the rather simple, non-massive existing [redacted] light table concept will be tolerated, and (2) certain items incorporated in the "advanced" light tables are superior to existing [redacted] light table components.

25X1

25X1

2. Keeping the above factors in mind together with the recent suggestions that pressure be brought to bear on [redacted] to improve their product, it is recommended that the Development Staff initiate an in-house project to fabricate an improved [redacted]. If a vast improvement in the light table's performance could be demonstrated by relatively minor design modifications, then NPIC's task of convincing the remainder of the intelligence community to join together to bring pressure on [redacted] to improve their design would be greatly reduced. Although it is much easier to describe improvements that can be made (as was done in the Development Objectives for the Advanced Light Tables) than actually making them, describing the deficiencies of the [redacted] products has had little effect in the past and will continue to have the same effect until it is vividly demonstrated how simply and how vast the improvements can be.

25X1

25X1

25X1

3. It is suggested that the project be initiated within the Development Staff in conjunction with the Exploratory Development Lab. Specifically, a plan generally following the outline below is recommended.

a. Either procure the best existing 9" x 40" inch [redacted] Light Table; probably the GFL-940 MCE, or use the recently acquired TDS GFL-940 MCE.

25X1

b. Modify the microscope transport, maintaining the basic simple concept, but incorporating a new type of bearing system such as the linear way of [redacted] the Dovetail Anti-Friction Bearing of [redacted] or the Ballway

25X1

25X1

SUBJECT: 9" X 40" Light Tables

25X1 Bearing of [redacted]

c. Change the nylon segmented film rollers to two chrome-plated tubular (maybe plastic for low inertia if chrome-plated is hard enough) rollers.

d. Remove the existing outside illumination masking shades and add the type developed by [redacted] in their advanced light table development. 25X1

25X1 e. Procure the new [redacted] Motorized Reel Brackets under a rigid performance specification including,but not limited to specifications for life testing, film speed requirements, maximum noise level, etc. Modify the electrical controls to simplify the operating procedure.

f. Add a simple,but mechanically stable reel bracket adjusting mechanism to permit rapid parallel reel bracket location to accommodate various film widths. Conceptually, this feature would be similar to that incorporated by [redacted] in their Advanced Light Table development. 25X1

4. If the modified light table was accepted at NPIC, then it would be submitted to the community for evaluation and if accepted again then steps 25X1 could be taken to encourage [redacted] to incorporate the superior design features into their standard product.

25X1 [redacted]

Exploitation Systems Branch, TDS